

### ABSTRACT

A measurement device for sensing medical parameters in a human body can be accommodated in a body cavity, in particular in a blood vessel, and has at least one sensor and one holder. In order to temporarily or permanently implant and subsequently remove the measurement device from the body cavity in a simple manner, the holder has at least one first and one second magnetic element, at least one of the magnetic elements being a magnet, with one of the elements being arranged inside and the other outside the body cavity, and the measurement device can be fixed in the body cavity by the holder.